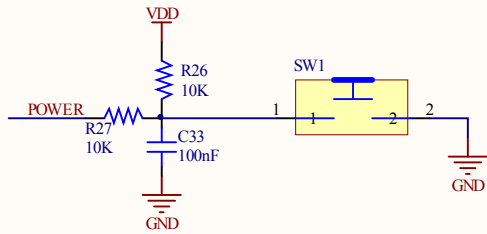
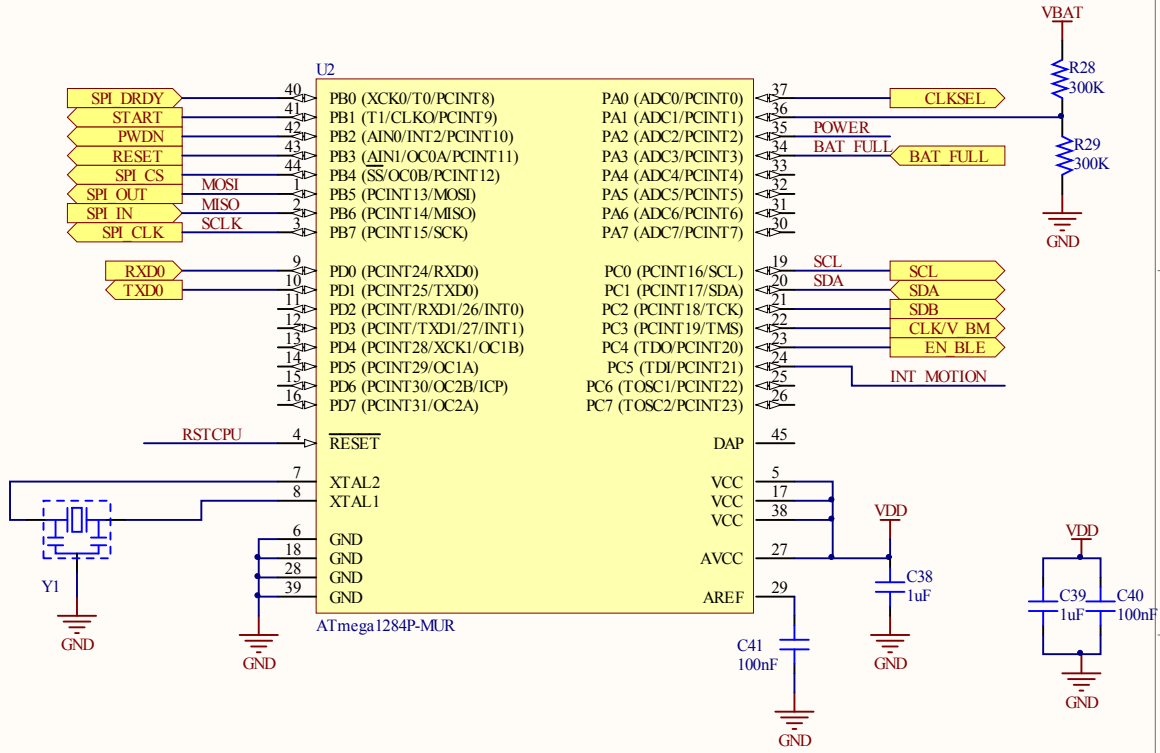
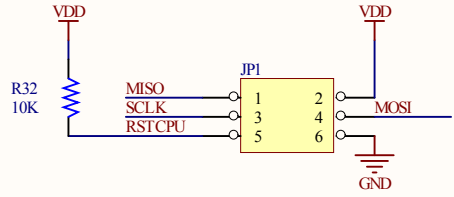
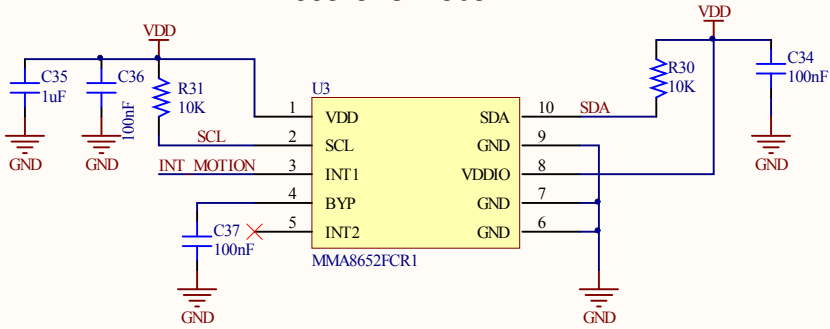


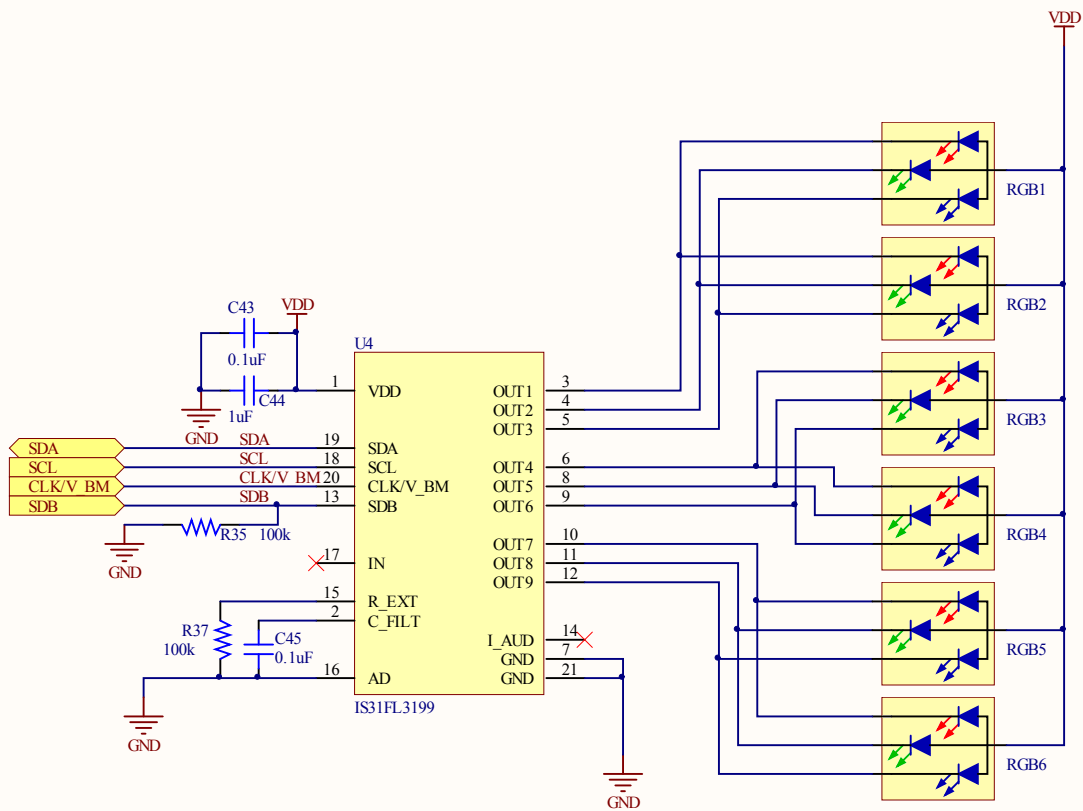
Microcontroller



Accelerometer



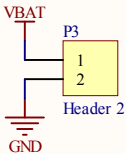
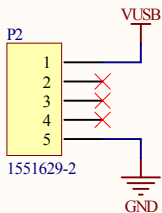
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|---|-----------------------------------|--------------------------------------|-------------------------------|-------------|
| EXATRONIC Innovation Insight www.exatronic.pt Exatronic - Eng. Electronica, Lda Quinta do Simao EN16 - Esgueira Aveiro, PORTUGAL exatronic@exatronic.pt | Customer P/N: | ENGINEER: Óscar Pereira | TITLE: Minerva Control | |
| | Checked: Manuel Loureiro | PCB DESIGNER: Óscar Pereira | | |
| | Approved: Luis Paula | DATE: 09-03-2015 | DOC Nº: 2 | REV: 1.0 |
| | Material: FR4, 1.6mm 0.35um Cu | FILE NAME: Minerva_Control.SchDoc | SCALE: 1:1 | |



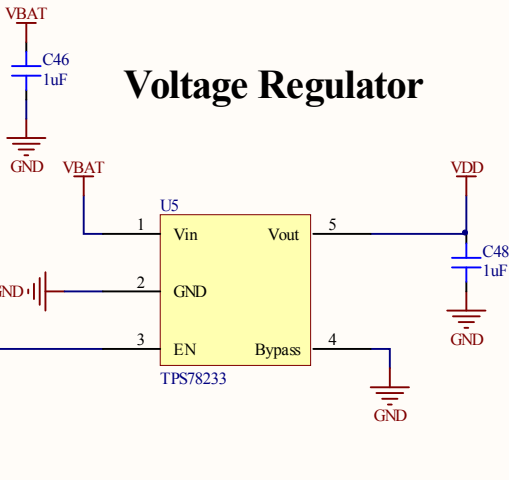
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|--|-----------------------------------|-----------------------------------|-----------------------------------|-------------|
| EXATRONIC <small>innovation insight</small> www.exatronic.pt Exatronic - Eng. Electronica, Lda Quinta do Simao EN16 - Esgueira Aveiro, PORTUGAL exatronic@exatronic.pt | Costumer P/N: * | ENGINEER: Óscar Pereira | TITLE: Minerva LEDs | |
| | Checked: Manuel Loureiro | PCB DESIGNER: Óscar Pereira | | |
| | Approved: Luis Paula | DATE: 09-03-2015 | DOC Nº.: 3 | REV: 1.0 |
| | Material: FR4, 1.6mm 0.35um Cu | FILE NAME: Minerva_LEDs.SchDoc | SCALE: 1:1 | |

Battery

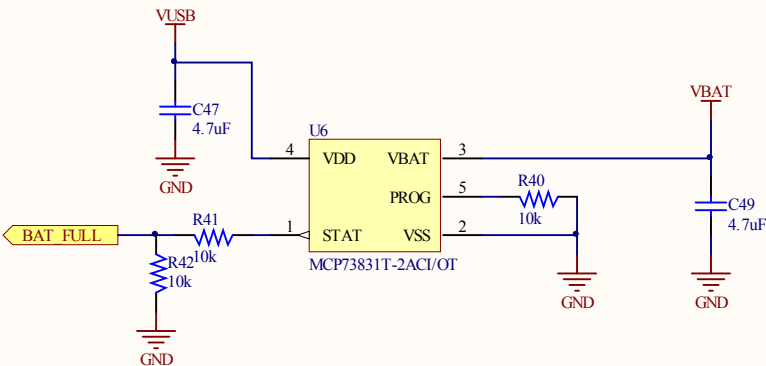
Micro USB Connector



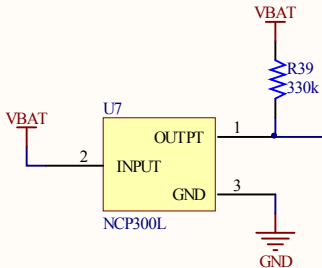
Voltage Regulator



Battery Charger



Low Voltage Detector

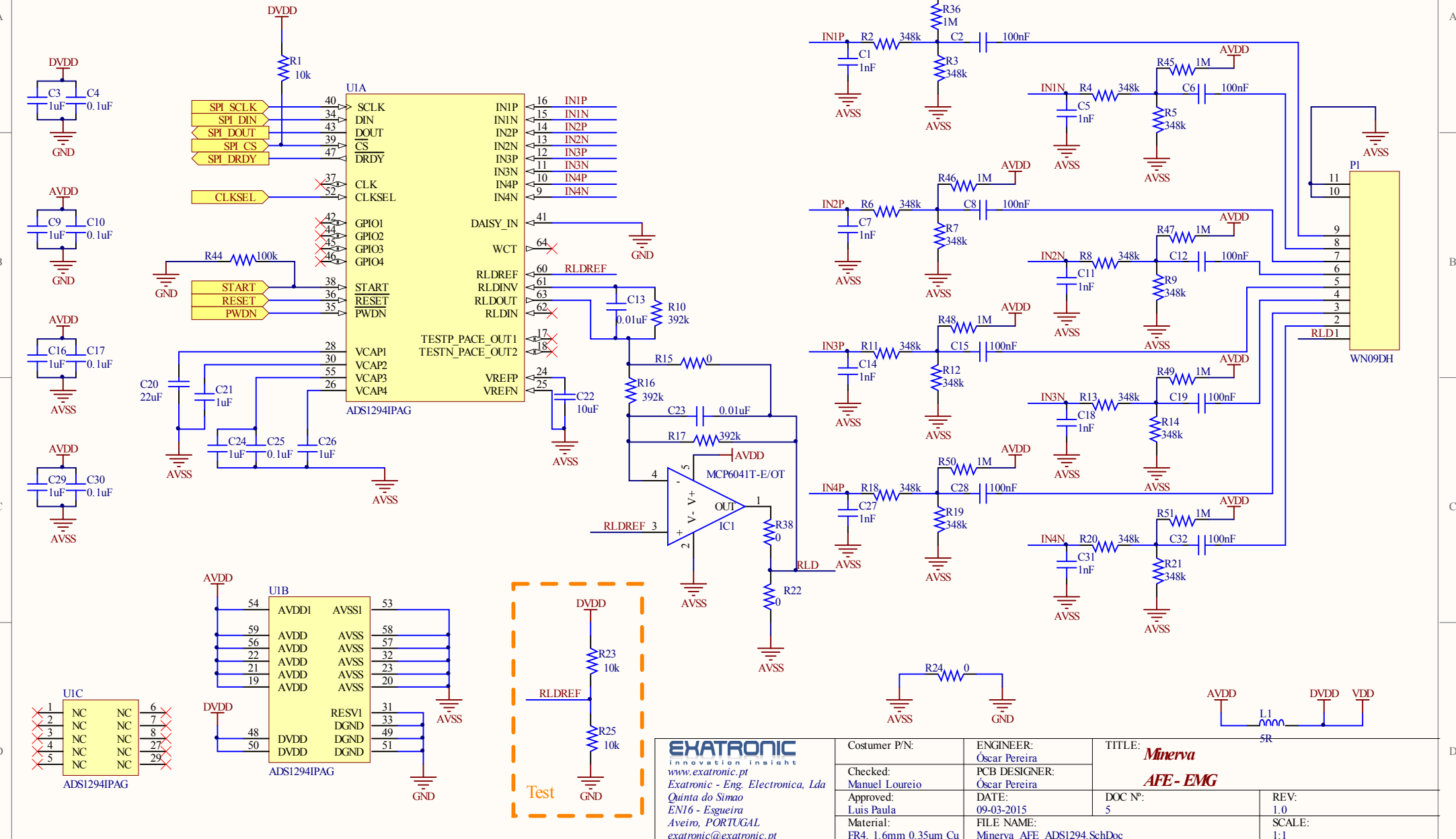


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| | |
|-----------------------------------|------------------------------------|
| Customer P/N: * | ENGINEER: Oscar Pereira |
| Checked: Manuel Loureiro | PCB DESIGNER: Oscar Pereira |
| Approved: Luis Paula | DATE: 09-03-2015 |
| Material: FR4, 1.6mm 0.35um Cu | FILE NAME: Minerva_Power.SchDoc |

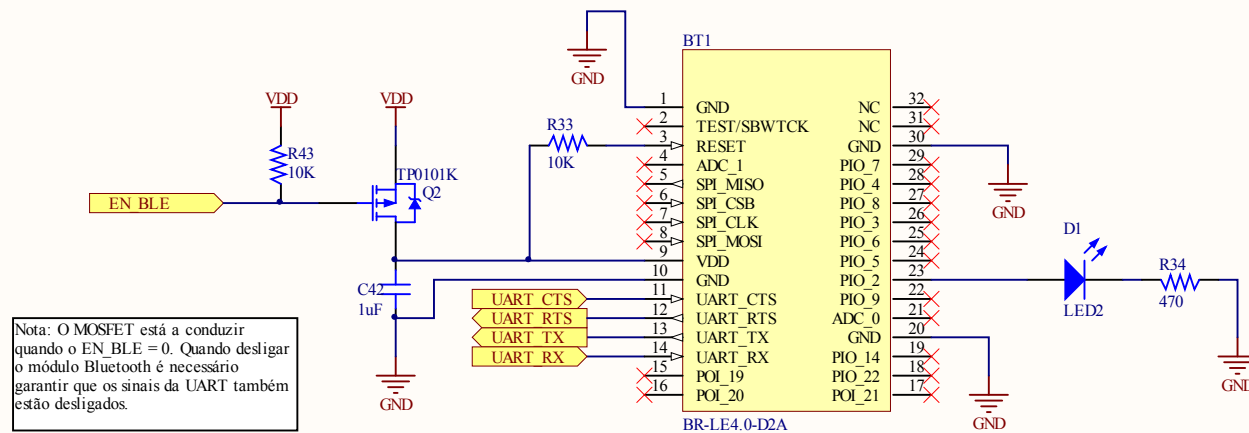
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| TITLE: Minerva Power | DOC N°: 4 | REV: 1.0 |
| | | SCALE: 1:1 |

Analog Front-End EMG



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|--|-----------------------------------|--|---|-------------|
| EXATRONIC Innovation Insights www.exatronic.pt Exatronic - Eng. Electronica, Lda Quinta do Simao EN16 - Esqueira Aveiro, PORTUGAL exatronic@exatronic.pt | Costumer P/N: | ENGINEER: Oscar Pereira | TITLE: Minerva AFE - EMG | |
| | Checked: Manuel Loureiro | PCB DESIGNER: Oscar Pereira | | |
| | Approved: Luis Paula | DATE: 09-03-2015 | DOC N°: 5 | REV: 1.0 |
| | Material: FR4, 1.6mm 0.35um Cu | FILE NAME: Minerva_AFE_ADS1294.SchDoc | SCALE: 1:1 | |

Bluetooth Dual Mode



Nota: O MOSFET está a conduzir quando o EN_BLE = 0. Quando desligar o módulo Bluetooth é necessário garantir que os sinais da UART também estão desligados.